

PCT/US2004/00001, 3,103,2005

CLAIMS

I Claim:

1. (Cancelled)

2. A boat having enhanced stability, safety and comfort, comprising:

a boat hull having at least one elongated vertical slot extending substantially therethrough, such that water, on which the boat is floating, freely communicates with said slot.

3. The boat of claim 2, wherein said slot extends longitudinally through said boat hull.

4. The boat of claim 3, wherein said slot is open at a front and a rear thereof.

5. The boat of claim 3, wherein said slot is open at a rear and closed at a front thereof.

6. The boat of claim 3, wherein said slot is open on a bottom thereof.

7. The boat of claim 3, wherein said slot is closed on a bottom thereof.

8. The boat of claim 3, wherein said slot is closed at a front and rear thereof.

9. The boat of claim 2, wherein an air vent is communicated with said slot.

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10. The boat of claim 3, wherein said slot is intermittently open on the bottom thereof.
11. The boat of claim 2, wherein said slot extends upwardly to a location above the waterline of the boat, such that said slot is simultaneously above and below the waterline.
12. The boat of claim 3, wherein said slot extends substantially along a longitudinal centerline of said boat hull.
13. The boat of claim 2, wherein said slot extends longitudinally through said boat hull substantially along a longitudinal centerline thereof, and is open on the front, bottom and rear thereof, and further wherein said slot extends upwardly to a location above the waterline of the boat such that said slot is simultaneously above and below the waterline.
14. The boat of claim 13, wherein multiple centers of buoyancy are created, at least one each on opposing sides of said slot.
15. The boat of claim 2, wherein said slot extends transversely through said boat hull.
16. The boat of claim 15, wherein said transverse slot is angled.
17. The boat of claim 2, wherein said boat hull is a catamaran, wherein each side hull has a transverse slot extending therethrough.

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18. The boat of claim 2, wherein said boat hull is a trimaran, and wherein each hull of the trimaran has a transverse slot extending therethrough.
19. The boat of claim 2, further comprising a second slot, wherein said slot extends longitudinally through said boat hull, and said second slot extends transversely through said boat hull.
20. The boat of claim 2, wherein said boat hull includes a plurality of elongated slots extending longitudinally therethrough.
21. The boat of claim 20, wherein said boat hull includes 3 elongated slots extending longitudinally therethrough, and wherein one of said 3 slots extends substantially along a centerline of said boat hull.
22. The boat of claim 2, wherein multiple centers of buoyancy are created, at least one each on opposing sides of said slot.
23. The boat of claim 2, wherein said boat hull is a submarine hull.